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☐ 1. Document ID: JP 06184897 A

L1: Entry 1 of 2

File: JPAB

Jul 5, 1994

PUB-NO: JP406184897A

DOCUMENT-IDENTIFIER: JP 06184897 A

TITLE: COMPOSITE ELASTIC MATERIAL AND ITS PRODUCTION

PUBN-DATE: July 5, 1994

## INVENTOR-INFORMATION:

NAME

MORMAN, MICHAEL T

COUNTRY

## ASSIGNEE-INFORMATION:

NAME

KIMBERLY CLARK CORP

COUNTRY

APPL-NO: JP02419322

APPL-DATE: December 14, 1990

INT-CL (IPC): D04H 1/50; A47K 7/00; A47L 13/16; B32B 27/00; D01G 25/00; D04H 1/62

## ABSTRACT:

PURPOSE: To provide a composite elastic material capable of stretching in at least two directions and having at least one elastic sheet.

CONSTITUTION: This invention provides a composite elastic material having at least one elastic sheet and a material capable of forming at least one necked part, which is joined to the elastic sheet at least at three locations arranged in a nonlinear configuration, and the material forms shrinkage between at least two of those joined locations and capable of stretching in at least two directions. The elastic sheet is formed from elastic polyesters, elastic polyurethanes, elastic polyamides, ethylene and elastomeric polymers selected from elastic copolymers comprising at least one kind of vinyl monomer, and the material capable of forming necked parts is selected from nit woven fabric, woven fabric with sagged knitted stitches and nonwoven materials that means materials to which a tensile strength to right angle to the objective neck-down direction is actioned and shrunk toward at least one axial direction.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

2. Document ID: CA 2030291 C EP 432763 A AU 9068056 A CA 2030291 A ZA 9009782 A  
☐ US 5116662 A AU 636937 B JP 06184897 A EP 432763 B1 DE 69021519 E ES 2076284 T3 PH  
27834 A JP 2919980 B2 KR 168640 B1

L1: Entry 2 of 2

File: DWPI

May 1, 2001

DERWENT-ACC-NO: 1991-179609

DERWENT-WEEK: 200131

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TITLE: Non-rubbery composite for diapers, tissues, etc. - comprises two-dimensional elastic sheet and polypropylene-contg. necked material bonded at nonlinear points

INVENTOR: MORMAN, M T; NORMAN, M T

PATENT-ASSIGNEE:

ASSIGNEE

KIMBERLY CLARK CORP

KIMBERLY-CLARK WORLDWIDE INC

CODE

KIMB

KIMB

PRIORITY-DATA: 1989US-0451264 (December 15, 1989)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2030291 C	May 1, 2001	E	000	B32B005/04
EP 432763 A	June 19, 1991		000	
AU 9068056 A	June 20, 1991		000	
CA 2030291 A	June 16, 1991		000	
ZA 9009782 A	October 30, 1991		000	
US 5116662 A	May 26, 1992		015	B32B027/14
AU 636937 B	May 13, 1993		000	B32B027/12
<u>JP 06184897 A</u>	July 5, 1994		020	D04H001/50
EP 432763 B1	August 9, 1995	E	027	D04H001/56
DE 69021519 E	September 14, 1995		000	D04H001/56
ES 2076284 T3	November 1, 1995		000	D04H001/56
PH 27834 A	November 25, 1993		000	B32B027/14
JP 2919980 B2	July 19, 1999		019	D04H001/50
KR 168640 B1	January 15, 1999		000	B32B027/00

DESIGNATED-STATES: AT BE CH DE ES FR GB GR IT LI LU NL SE AT BE CH DE DK ES FR GB GR  
IT LI LU NL SE

CITED-DOCUMENTS: DE 3734963; EP 212284 ; EP 217032 ; EP 239080 ; WO 9003464

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CA 2030291C	November 19, 1990	1990CA-2030291	
EP 432763A	December 12, 1990	1990EP-0123985	
ZA 9009782A	December 5, 1990	1990ZA-0009782	
US 5116662A	December 15, 1989	1989US-0451264	
AU 636937B	December 13, 1990	1990AU-0068056	
AU 636937B		AU 9068056	Previous Publ.
JP 06184897A	December 14, 1990	1990JP-0419322	
EP 432763B1	December 12, 1990	1990EP-0123985	
DE 69021519E	December 12, 1990	1990DE-0621519	
DE 69021519E	December 12, 1990	1990EP-0123985	
DE 69021519E		EP 432763	Based on
ES 2076284T3	December 12, 1990	1990EP-0123985	
ES 2076284T3		EP 432763	Based on
PH 27834A	December 14, 1990	1990PH-0041731	
JP 2919980B2	December 14, 1990	1990JP-0419322	
JP 2919980B2		JP 6184897	Previous Publ.
KR 168640B1	December 14, 1990	1990KR-0020781	

INT-CL (IPC): A47 K 7/00; A47 L 13/16; B29 D 0/00; B32 B 3/28; B32 B 5/04; B32 B 5/26; B32 B 7/04; B32 B 27/00; B32 B 27/12; B32 B 27/14; B32 B 31/16; C08 J 0/00; D01 G 25/00; D04 H 1/50; D04 H 1/56; D04 H 1/62; D04 H 13/00

ABSTRACTED-PUB-NO: JP 2919980B  
 EQUIVALENT-ABSTRACTS: Pressure sensitive elastic material can be stretched in 2 or more directions, comprising an elastic sheet and a necked material joined non-linearly at 3 or more locations to it, with gathering between two or more of the locations. The method of mfr. is also claimed. The elastic sheet comprises an elastomeric polymer, such as a polyester, polyurethane, polyamide, an A-B-A' block copolymer or an ethylene/vinyl copolymers, and is a web of melt-blown fibres and microfibrils. A tackifying resin, and processing aids may also be incorporated. The necked material can be a knitted or base-woven fabric, or may be non-woven or a composite material such as wood pulp, staple fibres or super absorbant materials. The non-woven material is a web such as a bonded carded fibre. spunbonded fibre or melt-blown fibre web, or a multilayer material contg. such a web. More specifically, the fibres are polymers e.g. polyolefins, polyesters or polyamides, and most preferably are polypropylene fibres. USE/ADVANTAGE - The current invention provides a non-rubbery elastic material which can be produced inexpensively for use in diapers, tissues, wipes, garments, etc., and can stretch in at least 2 directions.

TITLE-TERMS: NON RUBBER COMPOSITE DIAPER TISSUE COMPRISE TWO=DIMENSIONAL ELASTIC SHEET POLYPROPYLENE CONTAIN NECK MATERIAL BOND NONLINEAR POINT

DERWENT-CLASS: A32 A96 D22 F07 G03 P28 P73

CPI-CODES: A12-V03A; D09-C03; D09-C05; F02-C01; G03-B01; G03-B02;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1991-077500

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FILE COVERS 1907 - 1 Nov 2002 VOL 137 ISS 19  
FILE LAST UPDATED: 31 Oct 2002 (20021031/ED)

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CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s composite (1)sheet
    230794 COMPOSITE
    139529 COMPOSITES
    263149 COMPOSITE
        (COMPOSITE OR COMPOSITES)
    225448 SHEET
    141972 SHEETS
    295863 SHEET
        (SHEET OR SHEETS)
L1      11128 COMPOSITE (L)SHEET

=> s elastic? (1)stretch?(1)layer
    199284 ELASTIC?
    103202 STRETCH?
    985846 LAYER
    442827 LAYERS
    1211631 LAYER
        (LAYER OR LAYERS)
L2      344 ELASTIC? (L)STRETCH?(L)LAYER

=> s inelastic?(1)stretch?(1)fibr?(1)layer
    58311 INELASTIC?
    103202 STRETCH?
    265216 FIBR?
    985846 LAYER
    442827 LAYERS
    1211631 LAYER
        (LAYER OR LAYERS)
L3      3 INELASTIC?(L)STRETCH?(L)FIBR?(L)LAYER

=> s elastically (1)stretchable (1)layer
    5633 ELASTICALLY
```

```

1715 STRETCHABLE
985846 LAYER
442827 LAYERS
1211631 LAYER
(LAYER OR LAYERS)
L4      4 ELASTICALLY (L)STRETCHABLE (L)LAYER

=> s inelastically(l)stretchable(l)(fibrous or fibrous)(l)layer
2030 INELASTICALLY
1715 STRETCHABLE
45593 FIBROUS
54 FIBROUS
985846 LAYER
442827 LAYERS
1211631 LAYER
(LAYER OR LAYERS)
L5      0 INELASTICALLY (L)STRETCHABLE (L) (FIBROUS OR FIBROUS) (L)LAYER

=> d his
(FILE 'HOME' ENTERED AT 14:58:58 ON 01 NOV 2002)

FILE 'CAPLUS' ENTERED AT 14:59:52 ON 01 NOV 2002
L1      11128 S COMPOSITE (L)SHEET
L2      344 S ELASTIC? (L)STRETCH? (L)LAYER
L3      3 S INELASTIC? (L)STRETCH? (L)FIBR? (L)LAYER
L4      4 S ELASTICALLY (L)STRETCHABLE (L)LAYER
L5      0 S INELASTICALLY (L)STRETCHABLE (L) (FIBROUS OR FIBROUS) (L)LAYER

=> s inelastically
L6      2030 INELASTICALLY

=> s stretchable
L7      1715 STRETCHABLE

=> s fibrous
L8      45593 FIBROUS

=> s layer
985846 LAYER
442827 LAYERS
L9      1211631 LAYER
(LAYER OR LAYERS)

=> s 16 and 17 and 18 and 19
L10     0 L6 AND L7 AND L8 AND L9

=> s (inelastic or nonelastic or non-elastic) (l)fibrous(l)layer
56461 INELASTIC
13 INELASTICS
56461 INELASTIC
(INELASTIC OR INELASTICS)
1242 NONELASTIC
562089 NON
30 NONS
562113 NON
(NON OR NONS)
156717 ELASTIC
114 ELASTICS
156769 ELASTIC
(ELASTIC OR ELASTICS)
237 NON-ELASTIC
(NON(W)ELASTIC)
45593 FIBROUS

```

985846 LAYER  
442827 LAYERS  
1211631 LAYER

(LAYER OR LAYERS)  
L11 7 (INELASTIC OR NONELASTIC OR NON-ELASTIC) (L) FIBROUS (L) LAYER

=> d his

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FILE 'CAPLUS' ENTERED AT 14:59:52 ON 01 NOV 2002

L1 11128 S COMPOSITE (L) SHEET  
L2 344 S ELASTIC? (L) STRETCH? (L) LAYER  
L3 3 S INELASTIC? (L) STRETCH? (L) FIBR? (L) LAYER  
L4 4 S ELASTICALLY (L) STRETCHABLE (L) LAYER  
L5 0 S INELASTICALLY (L) STRETCHABLE (L) (FIBROUS OR FIBEROUS) (L) LAYER  
L6 2030 S INELASTICALLY  
L7 1715 S STRETCHABLE  
L8 45593 S FIBROUS  
L9 1211631 S LAYER  
L10 0 S L6 AND L7 AND L8 AND L9  
L11 7 S (INELASTIC OR NONELASTIC OR NON-ELASTIC) (L) FIBROUS (L) LAYER

=> s 12 and 13

L12 3 L2 AND L3

=> s 12 and 111

L13 4 L2 AND L11

=> d 113 1-4 bib,abs

L13 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 2002:810702 CAPLUS

TI Disposable diaper

IN Otsubo, Toshifumi

PA Japan

SO U.S. Pat. Appl. Publ.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002156444	A1	20021024	US 1997-937515	19970925
PRAI	JP 1996-259571	A	19960930		

AB A disposable diaper includes a backsheet consisting essentially of an **elastic inner layer** and an **inelastic outer layer** made of **fibrous material**. The **inelastic outer layer** is joined to the **elastic inner layer** in its **stretched state** at a plurality of spots for joining intermittently arranged on the **elastic inner layer** in its **stretched state**. In each of areas enclosed by a plurality of intersecting lines each defined by a plurality of the spots for joining closely arranged in succession, the **inelastic outer layer** is free to float off from the **elastic inner layer** and thereupon to form a plurality of pleats as the **elastic inner layer** is made free to contact.

L13 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 1997:603306 CAPLUS

DN 127:206646

TI Multilayer elastic laminate and manufacturing process

IN Boich, Heinz-Horst

PA Corovin GmbH, Germany

SO Ger. Offen., 8 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19604956	A1	19970814	DE 1996-19604956	19960210
	DE 19604956	C2	19990325		
	US 5939178	A	19990817	US 1997-797514	19970206
	JP 09327887	A2	19971222	JP 1997-27123	19970210

PRAI DE 1996-19604956 19960210

AB The title laminate comprises .gtoreq.1 rubber-like **elastic** substrate, e.g., a film, sheet or a **fibrous** structure, and .gtoreq.1 **inelastic** prestretched fleece layer. One or both layers are coated with a nonuniform adhesive and/or parting coating, the fleece layer is bonded with the rubber-like **elastic layer stretched** (.ltoreq.150% of its original length) in the direction of the fleece layer, and the bonded layers are allowed to relax.

L13 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 1994:638470 CAPLUS

DN 121:238470

TI Self-adhesive nonwoven elastic compressible composite material

IN Faass, Judith K.

PA Kimberly-Clark Corp., USA

SO Can. Pat. Appl., 47 pp.

CODEN: CPXXEB

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2092581	AA	19940623	CA 1993-2092581	19930326
	AU 9352142	A1	19940714	AU 1993-52142	19931202
	AU 671869	B2	19960912		
	JP 07003601	A2	19950106	JP 1993-321845	19931221
	US 5503908	A	19960402	US 1994-271276	19940706

PRAI US 1992-995468 19921222

AB The title material is composed of .gtoreq.1 **elastic** composite material and a coating of a self-adhesive material on at least a portion of .gtoreq.1 of its exterior surfaces so that the material is capable of being compressed in the Z-direction .gtoreq.45% at a pressure of .apprx.3 psi to a thickness of .gtoreq.0.035 in. The **elastic** composite material may contain an elastomeric nonwoven **fibrous** web joined to .gtoreq.1 relatively **nonelastic** gatherable material at spaced-apart locations so that the gatherable material is gathered between the spaced-apart locations. The peel strength of the self-adhesive material is less than the peel strength of the layers of the **elastic** composite material. The product may be used as a wrap or bandage in human or veterinary medicine. Thus, a nonwoven elastomeric web of melt-blown fibers comprising Kraton G-1657 63, polyethylene NA601 17, and Regalrez 1126 20 wt.% was **stretch-bonded** at spaced-apart locations to a **nonelastic** polypropylene filament web facing and sprayed on one side with a hot-melt adhesive (National 70-3828) (5 g/m2).

L13 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 1981:85518 CAPLUS

DN 94:85518

TI Longitudinal growth of polymer crystals from flowing solutions. VIII.

Mechanism of fiber formation on rotor surface

AU Torfs, J. C. M.; Pennings, A. J.

CS Lab. Polym. Chem., State Univ. Groningen, Groningen, Neth.



SO J. Appl. Polym. Sci. (1981), 26(1), 303-20

CODEN: JAPNAB; ISSN: 0021-8995

DT Journal

LA English

AB The mechanism of **fibrous** crystn. of high-mol. wt. polyethylene [9002-88-4] from dil. solns. subjected to Couette flow was detd. Fiber growth took place in a gel **layer** adhering to the surface of the rotating inner cylinder. The fiber was both tapered and ribbonlike, suggesting that growth occurred primarily on the lateral surfaces. The crystal growth rate, as detd. from fiber cross section dimensions, depended on the roughness and chem. nature of the rotor surface and was independent of the take up speed. The proposed mechanism assumes that long-chain mols. adsorb onto the rotor surface. By reptation an entanglement network is formed which has long relaxation times due to the tendency of the supercooled chains to form embryonic crystallites upon slight orientation. The network is **stretched** by the entanglement formation with the cilia of a seed crystal, followed by shear stresses. **Stretching** leads to further crystn. The **elastically** active chain parts between entanglements leads to the extended-chain backbone crystals. **Inelastic** chain parts crystallize as folded platelets of the shish kebab.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
57.06	57.48

PULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.48	-2.48

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